

Driving Blends

Minnesota's transition to ethanol & biodiesel

Fuel Blends Webcast

March 16, 2005

American Lung Association of Minnesota
Outdoor Air Programs – Tim Gerlach
Twin Cities Clean Cities Coalition (TC4)

www.CleanAirChoice.org







Our Mission:

"Improve Air Quality. Reduce the impact of tailpipe emissions on the environment and human health."





- Drive Less Use Less
- Use Cleaner Traditional Fuels
- Use Cleaner Alternative Fuels

MN B2 Requirement

- Requires minimum 8 million gallons of in-state biodiesel production
- Start: ~July 2005
- ~16 mgy in diesel displacement
- Presently, B2, B5, B10, B20 blends in use by fleets
- 100+ rural stations already offer B2





MN E10 Requirement

- "Gasohol" effort in Midwest of 1970s
- Viewed as rural & ag economic development
- Oxygenated fuels requirement
 - -2.7% O₂ met with min. 7.8 vol% ethanol
 - -Initially to combat CO in nonattainment areas
 - -Expanded to statewide, year-around in 1997
 - -Replaces 10% of gasoline needs
 - -97% market penetration (some non-oxy premium)

MN: 13 plants; ethanol exporter; \$1.3B; 5,300 jobs

MN Governor Tim Pawlenty:

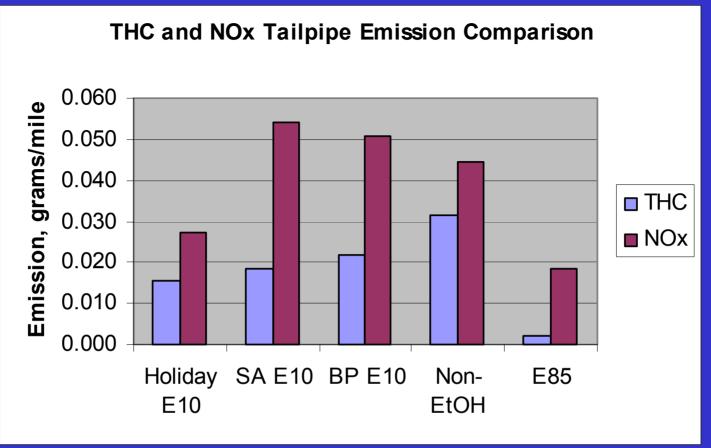
"I've found criticism of good public policy ideas comes in three stages:

- 1. It'll never work;
- 2. It'll cost too much; and
- 3. I thought it was a good idea all along."

E10 (and now B2) happened in MN because of people and their grassroots efforts . . . And not taking "no" for an answer.

"What we need is a whole lot of people who are not experts in what can't be done."

- Henry Ford



American Lung Association of MN Summer 2004 *Twin Cities Gasoline Survey & Comparison*Partial EPA federal test procedure [505-sec-duration/hot start; FTP 75 driving cycle]

Test vehicle: 2004 4-L Ford Explorer Sport Trac flexible fuel vehicle

87-octane gasolines and one E85 fuel

Non-ethanol gasoline sampled at BP in Hudson, Wisconsin.

All American Lung Association of Minnesota fuel/vehicle testing has been conducted by the University of North Dakota Energy & Environmental Research Center and the Minnesota State University-Mankato MnCAR program

